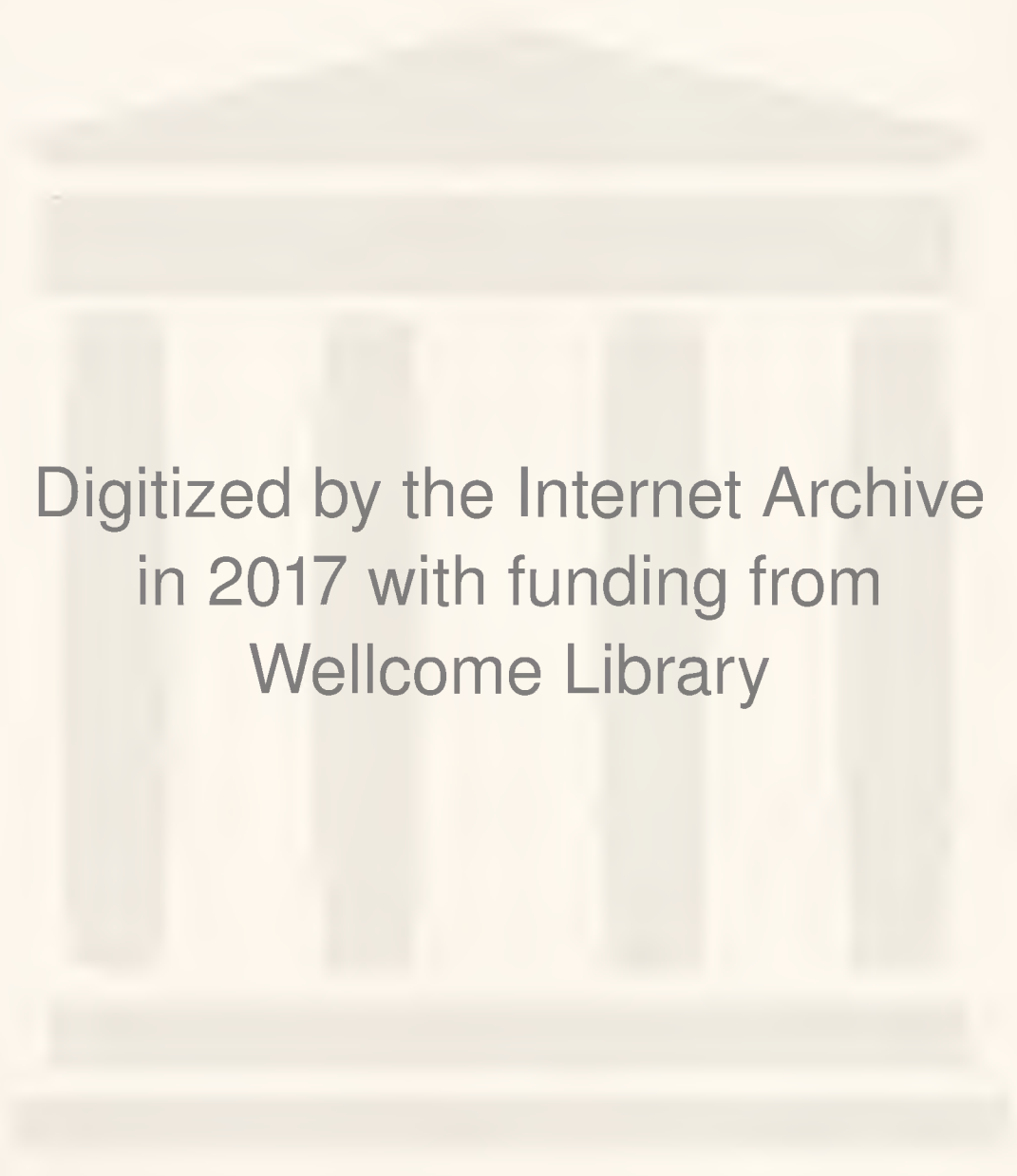




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City and County of the City of Exeter.



ANNUAL REPORT

FOR 1903,

OF THE

Vital Statistics,

SANITARY WORK, &c.,

BY

EDWARD A. BRASH, L.R.C.P., LOND.,

Medical Officer of Health.

EXETER :

Printed by BURRIDGE & CANNICOTT, Musgrave Alley, High Street.

1904.

CITY & COUNTY OF THE CITY OF EXETER.

SANITARY COMMITTEE.

Mayor:

MR. COUNCILLOR WIDGERY.

Chairman:

MR. COUNCILLOR C. T. K. ROBERTS.

Deputy-Chairman:

MR. COUNCILLOR KELLAND.

MR. ALDERMAN H. GADD, J.P.	MR. COUNCILLOR COURTNEY
„ „ McCREA.	„ „ DEPREE.
„ COUNCILLOR R. M. CHALLICE.	„ „ MERRICK.
„ „ COLE.	„ „ PETERS.
„ „ COMMUN.	„ „ H. TOLSON.

Town Clerk—GEO. R. SHORTO, ESQ.

STAFF OF THE PUBLIC HEALTH DEPARTMENT:

Medical Officer of Health and Medical Officer of Sanatorium—

E. A. BRASH, L.R.C.P., Lond., etc.

*Assistant Medical Officers of Health and Medical Officers
of Sanatorium—*

G. T. CLAPP, M.B., J. MAC KEITH, M.B., C. J. VLIELAND, M.D.

Matron of Isolation Hospital—

MISS MARION JONES.

*Chief Inspector of Nuisances, and Inspector under the
Food & Drugs Acts—*

WILLIAM J. WREFORD, Cert. San. Inst.

Inspectors:—

R. B. PEARSE, Cert. San. Inst., S. E. FULFORD.

*Clerk—*E. A. TROUNSON.

*House Disinfector—*W. RODBOURN. *Hospital Porter—*F. J. SMITH.

*Health Visitor—*MRS. J. MANLEY.



I have the honour to present to the
Right Worshipful the Mayor, Aldermen,
and Council of the City of Exeter, my
Annual Report for the Year 1903.

EDWARD A. BRASH.

February, 1904



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Annual Report.

GENERAL OBSERVATIONS.

In presenting this, the Tenth Annual Report dealing with the work carried out by the Health Department for the year 1903, I have, for the purpose of comparison, carefully followed in the lines of previous Reports: and I must first of all mention the great loss the Council has sustained by the death of their late Medical Officer of Health, Dr. Woodman, who for more than a quarter of a century carried out the duties of that office to the entire satisfaction of the Council and Citizens.

General
Observa-
tions.

The population of Exeter at the Census of 1901, was returned as 47,185, divided as follows:—Males, 21,401, Females, 25,784, showing an increase since the Census of 1891, of 1,419. The number of houses then were returned

as 10,322, out of which 356 were void, and there were 47 houses in course of erection. Since that date 103 houses have been erected, making a total of 10,425. Taking this number of houses and the estimated population of Exeter at 47,400, it gives about 4·5 persons per house, while in the Census of 1891 there were 5 persons per house.

The surface of Exeter varies from 25·9 feet above Ordnance Datum, on the Quay, to 136·5 feet at the Guildhall, 225·9 at Elmside, and 433·5 on the top of Pennsylvania. The fall from the City towards the river is very rapid.

GEOLOGICAL FORMATION.

The greater part of the ancient City and its immediate surroundings is built upon the new red sandstone—that to the north is on the carboniferous shale, and a portion of St. Leonard's stands on gravel, and the eastern side on the clay. The annexed parts of S. Thomas Parish is chiefly built on the old bed of the Exe, and the sub-soil is gravel.

The area of the City is 3,168 acres. The density of population for the City and County of the City is 15 per acre, and, reckoning the portion of the City built upon at 950 acres, we have a density of population of 50 per acre.

The following Table, taken from the Census Return for Devon, shows the population and number of houses in each Ward in the City, and also the number of Houses, &c., occupied as Tenements:—

TABLE

Showing Houses and Population of each Ward.

WARDS.	HOUSES.				POPULATION.		
	Inhabited.	Uninhabited. In occupation.	Uninhabited. Not in occupation.	Building.	1901.		
					Persons.	Males.	Females.
Belmont	765	9	39	7	3436	1519	1917
Cowick	700	7	25	—	3184	1524	1660
Exwick	710	8	12	7	3370	1629	1741
Holy Trinity	651	13	19	—	3375	1594	1781
Rougemont	525	88	16	2	3072	1481	1591
St. David	685	30	30	2	3263	1431	1832
St. James	830	23	28	2	4003	1709	2294
St. John	589	76	24	5	3867	1874	1993
St. Leonard	624	10	33	4	3028	1176	1852
St. Matthew	714	10	16	2	3500	1643	1857
St. Paul	647	110	56	2	3408	1521	1887
St. Petrock	541	107	19	—	2899	1087	1812
St. Sidwell	866	27	21	—	3877	1819	2058
St. Thomas	592	9	18	14	2903	1394	1509

TABLE

Showing the number of Tenements of less than five rooms,
distinguishing those occupied by various numbers
of persons.

URBAN DISTRICT.	Rooms in Tenement.	Tenements of less than 5 rooms.	PERSONS PER TENEMENT.										
			1	2	3	4	5	6	7	8	9	10	11
Exeter, City of (C.B.)—													
Tenements of less than													
five rooms 3974													
Over five rooms . 6832	1	598	346	159	56	22	10	3	1	1			
	2	1062	289	366	191	97	69	30	12	8			
	3	1194	102	244	248	198	163	118	64	29	19	9	
Total 10806	4	1120	37	202	227	199	159	129	84	48	27	5	3

The difference in the population of Exeter between the Census Returns for 1891 and 1901, shows an increase in the population of 1,419. Assuming that about the same rate of increase has continued since 1901, I think I should be on the safe side in estimating the population at the middle of the year 1903, at 47,400, and for the purpose of these statistics I have used that figure.

VITAL STATISTICS.

The total number of Births registered in Exeter in 1903, Birth Rate.
was 1,071, equal to a Birth-rate of 22·6 per 1,000, being
1·3 above that of last year, and 5·8 below that of England
and Wales.

The Registrar-General, in his summary for 1903, gives
the Birth-rate of England and Wales as 28·4 per 1,000 of
the population.

I quite agree with the remark made by the late
Dr. Woodman, that the low Birth-rate in Exeter should be
carefully noted, as this means a small proportion of young
adults, and a large proportion of old people, and is therefore
unfavourable to a low Death-rate; for out of 775 deaths,
no less than 284 of those were over 60 years of age, equal
to 36·6 per cent. of the total deaths.

The total number of Deaths in Exeter, including residents Death Rate.
of the City who died at the Sanatorium, was 775. Of these
775 deaths, 216 were under 5 years, and 284 over 60 years
of age, leaving only 275 deaths between these ages. By
agreement with the Registrar-General, five-sevenths of the
deaths occurring at the Royal Devon and Exeter Hospital
are deducted from the total deaths as the proportion of

the deaths of people coming from outside the City. I have carefully compared the deaths of non-residents occurring in the Royal Devon and Exeter Hospital, and I find this to be about correct.

Taking these figures, we have a corrected Death-rate of 15·3 per 1,000 per annum, which is 1·2 less than that of last year.

The Death-rate for England and Wales is given for the year 1903, as 15·4 per 1,000, this being 0·9 per 1,000 less than that of last year.

The Death-rate for the 76 Great Towns was 16·3 per 1,000. and in the 103 Towns in which Exeter is classed, it was 14·6 per 1,000.

The Death-rate for England and Wales less the 179 Great Towns was 14·8 per 1,000.

The Death-rate for Exeter is 1 below that of the 76 Great Towns, but is 0·7 above the 103 Towns in which Exeter is included.

There were 141 deaths of Infants under one year of age, giving a Death-rate of 131 per 1,000 births, this is the lowest rate for the past ten years, but is considerably increased by the large number of deaths from measles.

Deaths
under
1 year, 141.

The Death-rate for Infants in the 76 Great Towns was 144 per 1,000 births, and in the 103 Towns in which Exeter is included, 135 per 1,000 births.

Infantile Mortality.

Deaths in Public Institutions:—

The Royal Devon and Exeter Hospital	...	67
The City Workhouse	... ..	58
St. Thomas do.	... ..	
(Residents of the City only)	... ..	10
Total	..	135

The Death-rate for the last 10 years, in both Exeter and the 33 Great Towns, was :—

THE FOLLOWING TABLES

Will show the comparative Rates for each Month or Year:—

CITY OF EXETER.

Month.	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903
Jan.	31·3	24·35	19·2	26·5	21·70	16·84	21·97	17·4	16·5	19·0
Feb.	30·1	27·9	29·61	21·39	23·18	16·4	26·5	21·63	21·46	18·5
Mar.	22·7	28·39	13·74	23·66	17·46	16·8	17·92	23·67	19·6	16·75
April	20·7	18·92	17·23	21·76	17·55	14·26	19·55	17·2	15·44	15·30
May	15·0	15·1	14·8	11·33	12·72	19·1	15·7	16·98	15·0	12·70
June	14·7	10·39	19·64	15·0	8·89	14·55	15·44	13·0	15·25	12·40
July	18·66	14·7	15·4	15·65	9·39	14·26	14·81	14·08	14·45	13·50
Aug.	13·8	15·47	13·9	24·0	17·64	23·11	15·97	19·4	14·7	14·00
Sept.	15·3	13·1	14·57	10·87	15·29	16·65	14·84	10·34	13·7	13·20
Oct.	18·6	16·6	14·5	15·36	14·89	19·55	15·4	13·27	14·8	13·20
Nov.	22·2	15·08	17·1	13·81	12·0	20·3	18·34	14·3	15·73	15·00
Dec.	25·5	11·65	18·4	20·76	17·50	39·0	18·44	17·2	29·2	15·8

Death Rate Statistics.

The Death-Rate per 1,000 for each year being :—

20·68 17·47 17·2 18·32 15·66 19·13 17·9 16·4 16·5 15·3

IN THE 33 GREAT TOWNS.

Death Rate Statistics.

Month	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903
Jan.	23·8	19·82	19·2	19·7	20·32	18·15	25·12	18·1	18·34	18·25
Feb.	19·4	27·47	12·8	19·6	20·30	20·38	23·5	20·5	22·72	17·1
Mar.	19·85	29·57	19·6	18·5	20·95	22·66	20·98	19·1	18·97	16·8
April	18·85	20·2	19·04	13·3	19·54	19·30	21·72	18·67	17·57	15·37
May	17·5	17·4	18·15	16·85	16·72	16·95	18·5	16·71	16·86	16·0
June	16·2	15·95	17·17	16·1	15·86	16·52	16·5	14·87	13·15	14·20
July	16·4	20·45	21·66	17·72	15·55	18·0	16·47	17·45	10·10	13·75
Aug.	16·85	20·08	19·1	27·42	21·03	25·28	20·36	21·68	13·40	15·40
Sept.	15·75	20·0	15·67	18·5	23·68	22·3	18·19	17·8	16·87	13·7
Oct.	17·05	20·22	17·2	16·9	19·05	19·4	17·32	16·5	17·20	15·80
Nov.	17·3	19·5	20·5	18·9	17·10	18·46	17·54	20·17	17·65	17·20
Dec.	19·0	18·35	19·16	20·76	18·08	25·2	16·87	19·6	18·32	18·32

The Death-Rate per 1,000 for each year being :—

18·11 20·7 18·9 19·1 18·83 20·21 19·5 18·6 17·40 16·3

The Table for 1902 and 1903 is for the 76 Great Towns.

The Deaths in Exeter due to the Notifiable Zymotic Diseases were :—

Notifiable Zymotic Deaths.

Small Pox.	Diphtheria.	Membranous Croup.	Scarlet Fever	Typhoid Fever.	Puerperal	Erysipelas	Total.
0	3	0	6	1	0	1	11

Of these, 2 cases of Diphtheria and three of Scarlet Fever died at the Sanatorium.

The Deaths from Non-Notifiable Diseases were :—

Non-Notifiable Zymotic Deaths.

Measles.	Whooping Cough.	Diarrhoea.	Total.
36	6	23	65

Giving the Death-rate for Notifiable Zymotic Diseases of 0·23 per 1,000, and the Non-Notifiable Diseases at 1·4 per 1.000.

The Death-rate from the seven principal Zymotic Diseases in England and Wales for 1903, was 1·46 per 1,000; in the 76 Great Towns it was 1·89 per 1,000; and in the 103 Smaller Towns 1·41 per 1,000, and in England and Wales less the 179 Towns 1·08 per 1,000.

The following Table shows the Annual Death-rate per 1,000 for all causes and from the several Zymotic Diseases during the year 1903 :—

	All Causes.	Principal Zymotic Diseases	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhoea.	Deaths under 1 year per 1,000 Births.
England and Wales ..	15·4	1·46	0·02	0·27	0·12	0·18	0·27	0·10	0·50	132
76 Great Towns ..	16·3	1·89	0·03	0·36	0·14	0·20	0·33	0·12	0·71	144
103 Other large Towns..	14·6	1·41	0·02	0·20	0·12	0·16	0·28	0·11	0·43	135
England & Wales less the 179 Towns }	14·8	1·08	0·02	0·17	0·10	0·17	0·22	0·00	0·31	118
Exeter	15·3	1·5	0·0	3·61	0·12	0·08	0·1	0·02	0·48	131

Annual Death Rate

DISEASE INCIDENTS.

Notifiable Diseases.

SMALLPOX.

Smallpox.

No case of Smallpox occurred during the year 1903.

TABLE.

Showing the actual number of cases of Smallpox notified
for ten years and mortality for the same.

Year.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total
Cases Notified	1	3	31	0	0	1	0	2	6	0	44
Deaths	0	0	2	0	0	0	0	0	1	0	3

DIPHTHERIA.

The number of cases of this disease notified was 17, Diphtheria.
7 males and 10 females, of whom 3 died, viz :—2 males
and 1 female. This again shows a considerable decrease in
the number of cases—almost all the cases were subject to
bacteriological examination, and out of the 17 cases notified
nine were confirmed.

TABLE

Showing the number of cases notified corrected and mortality
from same for the past ten years :—

Year.	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	Total.
Cases Notified	21	22	16	11	12	10	20	40	32	17	201
Deaths	12	1	3	2	6	2	8	6	8	3	51

MEMBRANOUS CROUP.

Mem-
branous
Croup.

No case was notified.

SCARLET FEVER.

The Epidemic of 1902 slightly decreased during the first Scarlet
Fever.
and second quarters of 1903; during the summer months it
increased again, when it reached its maximum for the year;
during the last quarter there was again a slight decline.

The total number of cases notified was 321, as compared with 338 the previous year, and the deaths were only 6. Previous experience gained with regard to the Scarlet Fever Wave in Exeter is confirmed by the slight decrease in the number of cases notified during the past year. The difficulty of dealing with this disease in its mild form, has again been clearly demonstrated, in many cases the disease has been quite unrecognised, until a series of cases calls one's attention to a particular locality, when children in the peeling stage are generally found either attending school, or running about in public. The question of bringing these cases before the Magistrates has been carefully considered by the Town Clerk and myself, and in only one instance did we find the evidence of guilty knowledge sufficient to warrant legal proceedings being taken, and in this case a conviction was obtained.

TABLE

Showing number of cases of Scarlet Fever and mortality from the same for the past ten years:—

Year.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total.
Cases Notified	225	86	63	14	24	98	65	533	338	321	1767
Deaths	7	3	0	0	0	2	1	10	13	6	42

TYPHOID FEVER.

The number of cases of this disease notified during the past year is the lowest on record, being 31 cases and only one death. In these cases all the means at our disposal are used to ascertain the cause; the drains of the premises are tested, and careful enquiries are made as to the Milk and Food Supply, as well as to what chances of infection the patient may have exposed himself to, otherwise than at home. In all the cases the Water Supply was from the City Service.

Typhoid
Fever.

TABLE

Showing the number of cases of Typhoid Fever and the Mortality for the same for the past ten years :—

Year.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total
Cases Notified	56	38	74	96	93	186	91	41	33	31	739
Deaths	8	8	13	15	9	18	15	6	3	1	96

TYPHUS FEVER.

No case of this disease has been notified during the past year. During the whole of my experience in Exeter, I have never seen a case of this disease, and since the adoption of the Notification Act, in 1889, only one case has been notified, and from the record I find this to have been a very doubtful one.

Typhus
Fever.

PUERPERAL FEVER.

Puerperal
Fever.

Only one case of this disease has been notified, and the patient recovered.

ERYSIPELAS.

Erysipelas.

Eighteen cases of this disease were notified, with only one death.

CHICKEN POX.

Chicken
Pox.

During the past year 36 cases have been notified, none of which ended fatally.



Don-Notifiable Diseases.

MEASLES.

During the year there were 36 deaths registered from this disease, and all these fatal cases occurred in the first quarter of the year. These were not the result of a fresh outbreak of Measles, but a continuation of the epidemic of 1902. From this number of deaths one must conclude that there was a very large number of cases, but the exact number we have no means of knowing, the disease not being notifiable. The ages at which the deaths occurred were, 5 under 1 year, 29 between 1 and 5 years, and 2 between 5 and 15 years. We have carefully investigated the circumstances of these fatal cases, and find that the whole of the deaths occurred amongst children of the lower classes, and a particularly large proportion of them amongst the very poor and ignorant, where the ordinary precautions to prevent the fatal complications of this disease are practically ignored.

The following summary of localities in which the fatal cases occurred, and the occupation of the parents will confirm the above remarks.

LOCALITIES OF DEATHS FROM MEASLES.

LOCALITY.				OCCUPATION OF PARENTS.			
Alphington Street	...	1		Accountant	...	...	1
Belgrave Road...	...	1		Bricklayer	...	...	1
Bartholomew Street	...	1		Charwoman	...	...	1
Blackboy Road	...	1		Dairyman	...	...	1
Commercial Road	...	2		Domestic Servant	...	...	1
Clifton Street	...	2		Fitters	...	...	2
City Workhouse	...	1		Fireman	...	...	1
Exe Street	...	1		Labourers	...	...	19
Ewings Lane	...	3		Lamplighters	...	...	3
Exe Island	...	2		Master Plumber	...	...	1
Edmund Street	...	1		Mason	...	...	1
Frog Street	...	2		Painters	...	...	1
James Street	...	1		Porters	...	...	1
King Street	...	2		Rag Sorter	...	...	1
North Street	...	1		Waiter	...	..	1
Rack Street	...	2					
Russell Terrace	...	1					
Stepcote Hill	...	2					
Smythen Street	...	2					
Sidwell Street	...	2					
West Street	...	2					
Well Street	...	3					
		—					—
		36					36

TABLE

Showing the number of Deaths for the past ten years:—

Year.	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	Total
Deaths.	50	8	7	38	1	2	12	2	17	36	173

WHOOPING COUGH.

In the last quarter of the year, Whooping Cough became prevalent, and 5 deaths were registered as due to that disease.

Whooping
Cough.

DIARRHŒA.

The number of deaths from this disease was 23.

Diarrhœa.

I have carefully considered these fatal cases, particularly with regard to children under 1 year of age. Many of these deaths were registered as due to Gastro-Enteritis and Diarrhœa, which in children of that age is not caused by bad water or defective Sanitary conditions, but is in my opinion almost entirely due to improper feeding, dirty habits, and ignorant negligence,

The number of Deaths from this disease was divided as follows :—

Under one year	...	...	...	21
Between one and five years			...	1
„ 5 and 15 years	...		...	0
„ 25 and 60 years	...		...	0
„ over 60 years	...		...	1
				—
Total	...		...	23

TUBERCULOSIS.

During the past year 91 deaths have been registered as due to the various forms of Tuberculosis, divided as follows :— 67 deaths from Phthisis, 4 from Tubercular Meningitis, 1 from Tabes Mesenterica, and 19 from other forms of Tuberculosis. This shows a considerable decrease on that of last year.

The voluntary notification of Phthisis has been with us practically useless, as although we have had 67 deaths registered from this disease, not a single case was notified, although the Council offered to pay the usual fee for

notification. This can but indicate the feeling of the Medical Profession and the Public as regards voluntary notification of this disease.

We have used every endeavour during the past year to impress upon the Public the absolute necessity of disinfecting premises which have been infected with Phthisis, because in my opinion there is no doubt that houses become infected and thus spread the disease. In all cases we have been, and are willing to carry out, disinfection free of cost to any who will consent to it, and I am pleased to say that during the past year we have been able to disinfect no less than 45 houses in which deaths from Phthisis have occurred, but regret that in the other 22 cases, permission to do so was not obtained. I think if some steps could be taken to make this compulsory much good would result.

The Death-rate for Phthisis for the past year was 1·4 per 1,000, being slightly less than for 1902.

The Deaths from this disease in all its forms in Exeter is shown in the following Table :—

TABLE

Showing the Deaths from the following diseases for the
past ten years :—

Disease.	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903
Phthisis	56	61	61	50	55	72	56	66	74	67
Other Forms of Tuberculosis	19	11	12	13	12	11	20	14	19	19
Tubercular Meningitis	7	18	12	17	8	8	10	10	12	4
Tabes Mesenterica	2	3	1	2	6	0	2	5	1	1

NOTE:—In the above Table it must be noticed that before the year 1900 the population of Exeter was 37,717 ; since 1900, when St. Thomas was annexed, the population was increased to 47,400.



Deaths from Phthisis classified according to Locality and Sex
for 1903.

LOCALITY.	M.	F.	TOTAL.	LOCALITY.	M.	F.	TOTAL.
King Street ..	1	..	1	Brought Forward	23	12	35
York Road ..	1	..	1	Clifton Street ..	..	1	1
Rack Street ..	..	2	2	South Street ..	1	..	1
Sandford Street ..	1	1	2	Buller Road ..	1	..	1
Russell Street ..	..	1	1	Pancras Lane ..	2	1	3
St. Thomas Union	1	1	2	Union Road ..	..	1	1
Sidwell Street ..	2	2	4	Mary Arches Street	..	1	1
Market Street ..	1	..	1	Northernhay Street	1	..	1
Coombe Street ..	..	1	1	Holloway Street ..	2	..	2
City Workhouse ..	5	..	5	Cowick Street ..	..	1	1
Well Street ..	1	..	1	Parr Street ..	2	..	2
Summerland Street	2	1	3	R. D. & E. Hospital	1	4	5
Church Lane ..	1	..	1	Prospect Park ..	1	..	1
Melbourne Street ..	..	1	1	West Street ..	..	1	1
Sun Street ..	1	..	1	May Street ..	..	1	1
Regent Street ..	1	..	1	Cambridge Street..	1	..	1
Hoopern Street ..	1	..	1	Paris Street ..	1	1	2
Exe Street ..	..	1	1	Bartholomew Street	1	..	1
Weirfield Road ..	..	1	1	Jubilee Street ..	..	1	1
Foxhayes ..	1	..	1	Haven Banks ..	1	..	1
College Road ..	1	..	1	Paul Street ..	1	1	2
Stepcote Hill ..	1	..	1	Longbrook Street ..	1	..	1
Preston Street ..	1	..	1	Alphington Road ..	1	..	1
Carried Forward	23	12	35	Grand Total	41	26	67

CANCER.

The Deaths from this disease were 60. This shows a marked increase over that of the two previous years, and one has to consider whether this increase is due to a greater number of cases, or whether, as I believe, it is due to a better diagnosis of what was previously considered cases of obscure disease.

TABLE

Of Deaths from Cancer for the following years:—

1894	1895	1896	1897	1898	1899	1900	1901	1902	1903
39	36	41	30	31	38	36	33	50	60



SUMMARY OF INFECTIOUS DISEASES AND ACTION TAKEN.

In considering the number of cases of Infectious Diseases during the past year, I am pleased to find that there is a considerable reduction in the number of those cases that are an indication of the Sanitary condition of the City, and in spite of the fact that since the annexation of St. Thomas we have practically an increase in our population of over 10,500, we find that the number of cases and Deaths from Diphtheria is the lowest for the past three years, and from Typhoid Fever the lowest on record; in the latter disease the Attack-rate being only 0·65 per 1,000, and the Death-rate 0·02 per 1,000 of the population. At the same time one regrets to find that so many deaths have occurred from Measles and Infantile Diarrhoea, the causes for which I have already expressed my opinion. Scarlet Fever has been prevalent during the whole of the year, and though every effort has been made to prevent the spread of this disease, and 82 per cent. of cases notified have been removed to the Sanatorium, still the epidemic continues; and in looking back one is surprised to find that the Scarlet Fever Wave in this City is about every 8 years, as indicated by the fact that the maximum number of cases notified in 1893 was 796,

and the minimum in 1897 was 14, which again gradually increased to 533 cases in 1901, and is now again declining; one feels that the determining causes of this disease must be due to something quite apart from the General Sanitary condition of the City.

The action taken by the Health Department, has been prompt removal of all cases where the necessary isolation could not be provided at home, and thorough disinfection of the premises; careful enquiries into the causes of each case of disease; prevention of children from infected houses attending school, by advice notices to occupiers of infected premises, and by advising schools, libraries and Clerk to the School Board.

During the year the total number of rooms disinfected was 374. This includes :—

45 rooms disinfected after Phthisis.

2 „ „ Cancer.

9 „ „ Measles.



ARTICLES DISINFECTED IN 1903.

Mattresses	...	...	...	435
Palliasses	..	...	...	507
Blankets	...	...	...	432
Bolsters	...	...	...	235
Bedties	...	...	...	271
Quilts	...	...	...	120
Carpets	...	...	...	136
Dresses	...	...	...	174
Dressing Gowns		...	...	75
Cushions	...	..	...	100
Curtains	...	...	...	183
Underlinen	...	...	...	218
Coats	...	...	...	150
Suits	...	...	...	200
Rugs	...	...	...	85
Other Articles		...	...	2753
Total				6074

This necessitated the steam disinfecting apparatus being used 423 times.

SANATORIUM OR FEVER HOSPITAL.

REPORT ON SANATORIUM FOR 1903.

GENTLEMEN,

Sanatorium
Report.

We have the honour to report that the number of cases treated this year is 38 less than those of 1902, although the admissions for the year were one more than those of last year.

(*Vide* following figures):—

1893	...	Total treated at Sanatorium	...	530	
1894	...	Ditto	ditto	...	230
1895	...	Ditto	ditto	...	91
1896	...	Ditto	ditto	...	132
1897	...	Ditto	ditto	...	94
1898	...	Ditto	ditto	...	106
1899	...	Ditto	ditto	...	234
1900	...	Ditto	ditto	...	176
1901	...	Ditto	ditto	...	422
1902	...	Ditto	ditto	...	436
1903	...	Ditto	ditto	...	398

The number of cases treated from the County of Devon shows a decrease, as the following Table indicates:—

1894	...	Cases from the County of Devon	...	6	
1895	...	Ditto	ditto	...	20
1896	...	Ditto	ditto	...	32
1897	...	Ditto	ditto	...	40
1898	...	Ditto	ditto	...	35
1899	...	Ditto	ditto	...	57
1900	...	Ditto	ditto	...	66
1901	...	Ditto	ditto	...	41
1902	...	Ditto	ditto	...	100
1903	...	Ditto	ditto	...	83

The following is the mortality amongst the 83 cases from the County of Devon:—

Typhoid Fever	...	...	...	1
Scarlet Fever	...	...	...	0
Diphtheria	...	...	...	0
				—
Total	...	...	...	1

Cases treated from the City and County of Exeter ...	315
Cases treated from the County of Devon ...	83
Total ...	398

The average duration of each patient's stay in the Sanatorium was 45 days.

Against in 1897 ...	47 days
„ 1898 ...	44 „
„ 1899 ..	44 „
„ 1900 ...	45 „
„ 1901 ...	48 „
„ 1902 ...	46 „
„ 1903 ...	45 „

During the year 1903 there only occurred 6 deaths amongst all the patients who were treated at the Sanatorium, viz. :—

From Typhoid Fever ...	1
„ Scarlet Fever ...	3
„ Diphtheria ...	2
„ Smallpox ...	0
Total ...	6

This gives a Death-rate of 1·5 per 100 cases treated.

SMALLPOX.—No cases of Smallpox occurred in Exeter or neighbourhood during 1903, and no cases were under treatment in the Sanatorium.

DIPHTHERIA.—Fourteen cases of Diphtheria were treated, of whom two died, nine were discharged cured, and three remained under treatment.

TYPHOID FEVER.—Twenty-seven cases of Typhoid Fever were treated during the year, of whom one died, and twenty-six were discharged cured.

SCARLET FEVER.—Three hundred and fifty-seven cases of Scarlet Fever were treated, thirty-seven remaining from 1902. Of these, three died, two hundred and eighty-eight were discharged cured, and sixty-six were left under treatment.

Miss Bryan, the late Matron, left the service of the Council in June, and Miss Marion Jones was appointed Matron. She came from Croydon, where she had a large experience in the treatment and nursing of infectious diseases, and during the six months she has been here she has proved a most efficient officer.

The Matron and Staff of Trained Nurses under her, by their care and attention to the patients, and by their untiring and skilful attention to their duties, have largely contributed to the excellent results which we here have the honour to report to you.

Of the Steward, Mr. W. J. Wreford, we cannot speak too highly of the large amount of work he does in connection with the Sanatorium, and we thank him for his constant kind assistance, and cordial co-operation.

Appended are Schedules of cases.

We are, Gentlemen,

Faithfully yours,

EDWARD A. BRASH,

GEORGE T. CLAPP,

JOHN MACKEITH,

C. J. VLIELAND.



Schedule of Cases treated at the Exeter Sanatorium, for the
year 1903:—

DATE.	Cases admitted.				Deaths.				Discharged Cured.				Remaining on the last of each Month.			
	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Smallpox.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Smallpox.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Smallpox.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Smallpox.
Remaining on Jan. 1st, 1903.	2	37	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
January		30	.....	.....	.....	.....	.....	.....	.....	28	2	.....	2	39	.....	.....
February		20	1	.....	.....	1	1	.....	.....	2	23	.....	.....	36	.....	.....
March		4	17	2	.....	.....	.....	.....	.....	18	1	.....	4	35	1	.....
April		1	17	1	.....	1	.....	.....	.....	1	26	1	.....	3	25	1
May		2	15	1	.....	1	.....	.....	.....	3	14	2	.....	2	25	.....
June		4	22	.....	.....	.....	.....	.....	.....	1	15	.....	.....	4	32	.....
July		7	35	2	.....	.....	.....	.....	.....	1	18	.....	11	49	2	.....
August		2	29	.....	.....	.....	.....	.....	.....	6	32	2	.....	7	46	.....
September		4	34	1	.....	.....	1	.....	.....	6	38	.....	.....	5	42	.....
October			32	1	.....	.....	.....	.....	.....	2	29	.....	.....	3	44	1
November		1	29	.....	.....	.....	.....	.....	.....	3	22	1	.....	1	51	.....
December			40	3	.....	1	.....	.....	.....	1	25	.....	.....	66	3	.....
Total	27	357	14	.....	1	3	2	.....	26	283	9	.....	.....	.....	.....	.....

Average time of Patients' Treatment, 45 days.

Summary of Cases treated at the Exeter Sanatorium for the
year 1903:—

Disease Treated.	Remain- ing 1st Jan., 1903	Admitted during 1903	Deaths.	Dis- charged Cured.	Total Treated during 1903	Remain- ing 1st Jan., 1904
Typhoid Fever	2	25	1	26	27	—
Scarlet Fever	37	320	3	288	357	66
Diphtheria	2	12	2	9	14	3
Smallpox	—	—	—	—	—	—
Total	41	357	6	323	398	69

Summary of Cases treated at the Exeter Sanatorium from
the County of Devon, for the year 1903, and
included in the above:—

Disease Treated.	Remain- ing 1st Jan., 1903	Admitted during 1903	Deaths.	Dis- charged Cured	Total Treated during 1903	Remain- ing 1st. Jan. 1904
Typhoid Fever	—	11	1	10	11	—
Scarlet Fever	14	56	—	56	70	14
Diphtheria	1	1	—	2	2	—
Smallpox	—	—	—	—	—	—
Total	15	68	1	68	83	14

The County Cases were admitted from the following

Districts :—

Disease treated.	St. Thomas R.D.C.	Exmouth U.D.C.	Budleigh Salterton U.D.C.	Topshan Barracks	Total
Typhoid Fever	4	7	—	—	11
Scarlet Fever	37	17	1	1	56
Diphtheria	1	—	—	—	1
Total	42	24	1	1	68

SEWAGE.

It is now nearly two years since the whole of the Sewage on the City side of the Exe was intercepted from flowing into the river, and conveyed to the Septic Tanks to be dealt with by bacteriological treatment. I am pleased to say that during that period the works have dealt with the whole of the Sewage in a satisfactory manner, and as far as I can judge without any nuisance to the neighbourhood. During the summer months some complaints were made as to bad smells in the vicinity of the works, and although, accompanied by other officers of the Council, I have frequently and at all times, including the middle of the night, visited the works, we have never been able to determine that they were the cause of the complaints; at

times smells were noticed which we know for certain did not come from the Septic Tanks, but in my opinion were from other works in the district. With a view of diminishing any chance of smell coming from the effluent whilst standing in the filter beds, the Engineer, Mr. D. Cameron, advised the Council to increase the depth of the filtering material to the height shown on the original drawings, and to invite the Local Government Board to send their own Inspector to visit the works. I do not know whether this was done or not, but no complaints have been received since last August.

The Works for the treatment of the Sewage from the St. Thomas' side of the river are not yet completed, but I am assured by the Engineer that the same will be finished within a few weeks, and when completed this will mean that the whole of the Sewage of Exeter will be intercepted and treated before being discharged into the river.

Since the death of the late Medical Officer of Health in June last, I have kept careful observation of the mill leats and the river, and can thoroughly endorse the remarks of the late Dr. Woodman as to the great improvement in their Sanitary condition, and one can but hope that the

County Council will insist upon the other authorities carrying out their duties under the Rivers Pollution Act, in a similarly efficient manner to what we have done in Exeter.

HOUSE DRAINAGE.

The whole of the house drainage within the City is by the Water Carriage System, and during the past year much work has been done in that direction. 310 drains have been tested either by the smoke or water test. The whole of the drains of 104 houses have been re-laid, and 77 partially done. Considerable work has been done in the providing of additional W.C. accommodation, 59 additional W.C's. have been erected, while 43 soil pipes have been ventilated. A large amount of work has been done in the Sanitary accommodation of licensed premises, and in 10 cases additional accommodation has been provided. A great deal has been done in the way of Sanitary improvements, as will be shown by the amount of the work completed during the year in the report of the Sanitary Inspector.

REMOVAL AND DISPOSAL OF HOUSE REFUSE.

This work is carried out by the Council by direct labour, and in most parts of the City the house refuse is removed daily, while in the suburban parts once a week.

During the past year a few complaints have been made, but on the whole the work is well done. The method of disposal of house refuse, is by putting it into tips and selling it to farmers and others in the neighbourhood. This method of disposal is not satisfactory, and the question of providing a destructor for this purpose is being considered by the Council.

WATER.

The water supply of the City continues to be satisfactory, and there is always a plentiful supply ; the Reports of the Public Analyst, which are appended hereto, confirm these remarks.



ANALYST'S REPORT.

Analysis of City Water.

PUBLIC ANALYST'S LABORATORY,

EXETER, *January 10th, 1903.*

REPORT OF A SAMPLE OF WATER.

Analyst's
Report.

Collected January 13th, 1903, from Main Tap in
Laboratory.

Physical Characters :—

(a)	Colour	..	...	...	Average slightly yellow tint
(b)	Taste	...	...	...	Normal
(c)	Smell	...	...	...	Absent
(d)	Suspended Matter		...	...	Nothing

Chemical Characters :—

	In Grains per Gallon.
(e) Total Solids (dried at 110° C) ...	5·8
(f) Mineral Matter (after re-carbonating)...	6·4
(g) Loss on Ignition ...	·3

Characters on Ignition:—Nothing

Carbonised.

(h) Chlorides (expressed as Chlorine) ...	1·0
(i) Hardness (total) ...	4·0
(j) Hardness (permanent) ...	·9
(k) Nitrites ...	0
(l) Nitrates (expressed as Nitrogen) ...	·086
(m) Saline Ammonia ..	·0004
(n) Albumenoid Ammonia ...	·006
(o) Oxygen absorbed in 4 hours ...	·04
(p)	
(q) Poisonous Metals ...	Absent
(r) Phosphates ...	0

N.B.—To convert Grains per gallon into parts per 100,000

multiply by $\frac{10}{7}$

THOMAS TICKLE,

Public Analyst.

PUBLIC ANALYST'S LABORATORY,

EXETER, *May 4th, 1903.*

REPORT ON A SAMPLE OF WATER.

Taken May 4th, 1903, from Main Tap in Laboratory.

Physical Characters :—

(a)	Colour	...	...	...	Yellowish tint
(b)	Taste	...	...	...	Normal
(c)	Smell	...	...	...	Absent
(d)	Suspended Matter	...	...	...	Nothing

Chemical Characters :—

In Grains per Gallon.

(e)	Total Solids (dried at 110° C)	...	8·0
(f)	Mineral Matter (after re-carbonating)...		7·1
(g)	Loss on Ignition	...	·9

Characters on Ignition :—Small amount
of matter carbonised.

(h)	Chlorides (expressed as Chlorine)	...	1·1
(i)	Hardness (total)	...	4·9
(j)	Hardness (permanent)	...	1·1
(k)	Nitrites	...	0
(l)	Nitrates (expressed as Nitrogen)	...	·046
(m)	Saline Ammonia	...	·0006

(n)	Albumenoid Ammonia	...	...	·0043
(o)				
(p)	Oxygen absorbed in 4 hours		..	·075
(q)	Poisonous Metals	...	...	Absent
(r)	Phosphates	...	...	0

N.B.—To convert Grains per gallon into parts per 100,000
multiply by $\frac{10}{7}$

THOMAS TICKLE,

Public Analyst.



PUBLIC ANALYST'S LABORATORY,

EXETER, *July 6th, 1903.*

REPORT ON A SAMPLE OF WATER.

Collected July 6th, 1903, from Main Tap in Laboratory.

Physical Characters :—

(a)	Colour	...	...	...	Nearly colourless
(b)	Taste	...	...	...	Normal
(c)	Smell	...	...	...	Absent
(d)	Suspended Matter	...	...	...	Insignificant

Chemical Characters :—

				In Grains per Gallon.
(e)	Total Solids (dried at 110° C)	...	...	8·0
(f)	Mineral Matters (after re-carbonating)	..	...	7·4
(g)	Loss on Ignition	...	...	·6

Characters on Ignition :—Very little
Carbonisation.

(h)	Chlorides (expressed as Chlorine)	...	...	1·05
(i)	Hardness (total)	...	...	5·4
(j)	Hardness (permanent)	...	...	1·0
(k)	Nitrites	...	...	0
(l)	Nitrates (expressed as Nitrogen)	...	...	·057
(m)	Saline Ammonia	..	...	·0006

(n)	Albumenoid Ammonia	...	..	·0057
(o)	Oxygen absorbed in 4 hours		...	·045
<i>p)</i>				
(q)	Poisonous Metals	...	...	Absent
(r)	Phosphates	...	...	0

N.B.—To convert Grains per gallon into parts per 100,000
 multiply by $\frac{10}{7}$

THOMAS TICKLE,

Public Analyst.



PUBLIC ANALYST'S LABORATORY,

EXETER, *October 6th, 1903.*

REPORT ON A SAMPLE OF WATER.

Collected October 6th, 1903, from Main Tap in
Laboratory.

Physical Characters :—

(a)	Colour	...	...	...	Yellowish tint
(b)	Taste	...	...	...	Normal
(c)	Smell	...	...	...	None
(d)	Suspended Matter	...	...	...	Insignificant

Chemical Characters :—

				In Grains per Gallon.
(e)	Total Solids (dried at 110° C)	...	...	7·6
(f)	Mineral Matter (after re-carbonating)	...	...	7·0
(g)	Loss on Ignition	...	...	·6

Characters on Ignition :—Much matter
carbonised.

(h)	Chlorides (expressed as Chlorine)	...	...	1·3
(i)	Hardness (total)	...	...	4·85
(j)	Hardness (permanent)	...	..	·8
(k)	Nitrites	..	...	0
(l)	Nitrates (expressed as Nitrogen)	...	...	·04

(m)	Saline Ammonia	...	less than	·0004
(n)	Albumenoid Ammonia	...	...	·0097
(o)	Oxygen absorbed in 4 hours	...	...	·095
(p)				
(q)	Poisonous Metals	...	...	Absent
(r)	Phosphates	...	...	Slight traces

N.B.—To convert Grains per gallon into parts per 100,000
multiply by $\frac{10}{7}$

THOMAS TICKLE,

Public Analyst.



COMMON LODGING HOUSES.

There are only 3 Common Lodging Houses in the City, these are regularly inspected by the Police and Sanitary Officers, and during the past year they have been brought into compliance with the Model Bye-laws for Common Lodging Houses which have been adopted by the Council. These houses are well kept, and only one case of infectious disease has been notified, viz. :—Scarlet Fever in the child of a keeper.

Common
Lodging
Houses.

SLAUGHTER-HOUSES.

During the past year the number of Slaughter-houses in the City have been reduced, leaving only 10 (all registered Slaughter-houses). These have been regularly inspected, and found to be kept in accordance with the Bye-laws. In two cases notices were sent me by the Occupiers to inspect carcases which had been slaughtered, in one case I considered the whole of the carcase should be destroyed on account of General Tuberculosis, in the other, portions only were destroyed. I have at all times found the Butchers of the City most ready to accept my decision, and in no case have they disputed it. With reference to the Slaughter-house behind the King's Arms Inn, Cowick Street, mentioned

Slaughter-
houses.

by the late Dr. Woodman in his last report, I am informed by the Occupier that his lease expires next Lady-day, and that the use of the premises for a Slaughter-house will be discontinued.

BAKEHOUSES.

Bakehouses.

We have 63 Bakehouses within the City all of which have been regularly inspected, and with few exceptions kept in compliance with the Act of Parliament. During the past year the Council have had to deal with the Sanitation of the Underground Bakehouses, which I am pleased to say are only 7 in number. After careful consideration a set of requirements for Underground Bakehouses was drawn up and approved by the Council. It was found impossible for two of the Underground Bakehouses to comply with these requirements, and the Occupiers were notified in the early part of the year that Certificates would not be granted; in one case a new Bakehouse above-ground was built, and in the other case the premises were discontinued to be used as a Bakehouse.

In four other cases the Occupiers had to spend considerable sums in alterations so as to bring the premises up to the required standard, and in the fifth case the Electric Light had to be provided. I am sure that this

important section of the Factories and Workshop Act, will, now that the work is completed, be appreciated by those who have had to re-model their premises, and I am certain that it has been the means of putting the whole of the Underground Bakehouses in a Sanitary condition.

DAIRIES, MILKSHOPS, AND COWSHEDS.

During the past year the whole of the Dairies, Milkshops and Cowsheds have been visited, and only in a few cases have conditions calling for interference been discovered. No outbreak of infectious disease could in any way be traced to milk supply. During the year 43 samples of milk have been analysed, and only 6 were found adulterated.

Dairies, &c.

SALE OF FOOD AND DRUGS ACT.

During the past year 123 samples were submitted to the Public Analyst, with the result that 13 were returned as adulterated. The results of the Analyses and proceedings taken are shown in the annexed table. The question of the addition of Boric Acid to Milk having been referred to me by the Council, I advised that Milk adulterated with Boric Acid to any extent would be injurious to the health of infants, young children, and invalids, for whom Milk forms the principal or only food, and that the sale of Milk with Boric Acid added, must be contrary to the Foods and

Food and
Drugs Act.

Drugs Act, not being of the nature, quality, and substance of the article asked for, and I advised that a Circular should be sent to all vendors of Milk, pointing out to them that the addition of Boric Acid to Milk was an offence under the Food and Drugs Act. Since the above Circular was sent out, I have found the practice to a large extent decreased, and in no case has it been necessary to take proceedings.



ABSTRACT OF SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1903.

Milk.	Butter.		Cheese.		Lard.		Coffee.		Pepper.		Cocoa.		Cream.		Ice Cream.		Bread.		Vinegar.		Flour.		Preserv'd Peas.		Total.	
	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.	Examined.	Adulterated.
43	6	15	1	—	6	—	9	—	9	—	3	2	6	—	9	3	6	—	4	1	4	—	3	—	123	13

AMOUNT OF ADULTERATION, PROCEEDINGS TAKEN AND FINES.

No. of Sample	Article Adulterated.	Amount of Adulteration.	Proceedings Taken.	Result of Proceedings.
3	Milk	4.7 per cent. added water	None ..	
43	Cocoa	21.5 do. do. sugar 34 do. do. starch	Do. ..	Protected by label.
45	Cocoa	25.5 do. do. sugar 24.5 do. do. starch	Do. ..	Protected by label.
61	Milk ..	13 per cent. deficient fat	Summoned	Fined 10/- and costs.
63	Do. ..	6.1 grs. Boric Acid per pint.	None	Circular letter <i>re</i> Boric Acid sent to all Dairymen.
64	Do. ..	1.5 grs. Boric Acid per pint.	Do. ..	
65	Do. ..	2.8 grs. Boric Acid per pint	Do. ..	
67	Ice Cream	Unsatisfactory ..	Do. ..	
70	Do.	Do. ..	Do.	
73	Milk	Traces of Boric Acid .	Do. ..	
78	Ice Cream.	Unsatisfactory ..	Do. ..	
83	Butter ..	2 per cent. added water ..	Do. ..	
101	Vinegar ..	100 per cent. Extraneous Acetic Acid.	Cautioned ..	

Standard for Butter 16 per cent. of water.

Standard for Milk 8.5 per cent. milk solids other than
milk fat. Fat 3 per cent.

Standard for Skimmed Milk 9 per cent of milk solids.

FACTORY AND WORKSHOPS ACT.

During the past year a large amount of work has been done in the Inspection of Factories and Workshops, and we now have on our register 391 Workshops, and 52 Factories, classified into the various Trades as per following Table:—

Factory and
Workshops
Act.

TABLE

Showing number of Workshops and Inspections made under the Factory and Workshops Act, during 1903.

WORKSHOPS, ETC.	No. on Register	No. of Visits	WORKSHOPS, ETC.	No. on Register	No. of Visits
Bakers ..	63	130	Brought Forward	22	347
Basket Makers ..	2	3	Laundries ..	12	15
Bedding Manufacturers	1	1	Lace Manufacturers ..	2	2
Blind Makers ..	3	3	Leather Merchants	2	2
Boot Makers ..	6	7	Mangling ..	1	1
Bookbinders ..	3	3	Milliners ..	2	34
Brush Makers ..	3	7	Modellers ..	1	1
Brass Finishers ..	1	1	Plumbers & Gas Fitters	22	24
Builders ..	34	42	Picture Frame Maker ..	6	8
Cabinet Makers ..	14	18	Rope Makers ..	1	1
Cheese Factors ..	1	1	Rag Stores ..	3	3
Coach Makers ..	5	6	Saddlers ..	7	7
Confectioners ..	3	5	Scale Makers	1	1
Coopers ..	2	2	Smiths ..	3	3
Corset Makers ..	2	2	Stained Glass Window Makers ..	3	3
Cycle Repairers ..	8	10	Shoeing Forges	3	3
Decorators ..	3	3	Shirt & Collar Makers ..	1	1
Dressmakers ..	60	89	Sculptors ..	6	6
Drug Manufacturers ..	2	1	Tailors	47	80
Embroidery Makers ..	2	3	Tarpaulin Makers ..	1	1
Engravers ..	4	4	Tinsmiths ..	2	2
Fancy Box Makers ..	1	1	Tea Factors	1	3
Fish Packing	1	1	Umbrella Repairers ..	2	2
Hat Makers ..	1	1	Upholsterers ..	11	15
Ironmongers ..	3	3	Wheelwrights ..	3	3
Carried Forward	288	347	Grand Total	391	566

TABLE

Showing number of Factories and Inspections made
under the Factory and Workshop Acts,
during 1903.

FACTORIES	No. on Register	No. of Visits	FACTORIES.	No. on Register	No. of Visits
Aërated Water Makers..	3	3	Brought Forward	25	28
Baryta Manufacturer ..	1	1	Ice Manufacturer ..	1	1
Builders	5	5	Ironmongers ..	2	2
Brewers	2	2	Paper Mills.. ..	1	1
Brush Makers ..	1	1	Printers	13	13
Blouse Manufacturer ..	1	1	Plumber	1	1
Boot Maker	1	1	Rag Sorter	1	1
Cutler	1	1	Saw Mills	1	1
Collar Manufacturer ..	1	1	Tobacco Factor ..	1	1
Coach Builder	1	3	Tailor	1	2
Cycle Repairer	1	3	Wood Carvers ..	2	2
Engineers	6	6	Wood Turning ..	1	1
Flour Mills.. ..	2	2	Wheelwright ..	2	2
Carried Forward	25	28	Grand Total	52	56

In 52 cases Sanitary defects were found, and notices for the abatement of the same were served on the occupiers.

The notices were divided as follows :—

TABLE

Showing Notices served under the Factory and
Workshops Act.

Notices to Limewash	...	...	7
Notices to re-construct W.C's.		...	3
Contravention of Act by not sending			
List of Out-workers	...	...	23
Additional Sanitary Conveniences		...	10
Notice to Abate Overcrowding		...	9
			—
	Total	...	52

We have at the present time on our register 113 Out-workers, all of whom have been visited twice during the past year.

The 7 Underground Bakehouses in the City have been Inspected and dealt with, with the result that two were abolished and 5 re-modelled so as to comply with the requirements of the Act.

In a few cases complaints have been received from H.M. Inspector of Factories, and the nuisances complained of have been abated after notice from this department.



MAGISTERIAL PROCEEDINGS

Respecting various Cases brought before the Justices
during the Year 1903.

No.	Nature of Offence.	Date of Hearing	Result.
1	Using unlicensed premises for the slaughtering of a Calf.	July 7th.	Fined £1 inclusive.
2	Wilfully exposing Child while suffering from Scarlet Fever.	July 7th.	Fined 10/- inclusive.
3	Selling Milk deficient in fat to the extent of 13 per cent.	July 17th and 24th.	Fined 10/- and costs.
4	Exposing for sale 293 Herrings which were unfit for food.	September 25th.	Three months imprisonment.
5	Ditto ditto	Ditto	Dismissed.
6	Exposing for sale 139 Herrings which were unfit for food.	Ditto	Fined 10/- and costs.
7	Ditto ditto	Ditto	Fined 10/- and costs.

METEOROLOGICAL READINGS FOR THE YEAR 1903.

MONTH.	Barometer Corrected.	Thermometers in Shade.		MEANS OF				TOTAL OF		REMARKS	
		Highest Reading.	Lowest Reading.	Thermometers.		Dew Point.	Thermometers in Shade.		Rain in inches		Number of Wet Days.*
				Dry Bulb.	Wet Bulb.		Maxi-mum.	Mini-mum.			
January ..	29.919	55.0	22.0	43.9	42.2	40.2	46.7	39.2	2.93	16	
February ..	30.083	57.5	32.0	47.5	45.3	42.8	50.9	41.6	2.08	11	
March ..	29.802	61.5	33.0	48.8	45.5	41.9	53.0	41.1	2.81	21	
April ..	29.876	60.5	30.0	49.5	45.5	41.3	54.3	39.6	2.17	10	
May ..	29.845	74.0	38.0	56.9	52.8	49.1	62.2	46.5	3.34	14	
June ..	31.021	78.0	41.0	59.9	55.4	51.5	65.9	49.6	2.66	12	
July ..	29.952	80.0	46.5	64.2	59.6	55.9	70.0	54.0	3.92	14	
August ..	29.888	74.0	47.0	62.2	58.2	54.9	68.6	53.1	3.21	16	
September ..	29.990	72.0	38.5	59.2	56.5	54.2	64.3	51.5	3.37	14	
October ..	29.625	66.0	36.0	53.7	52.4	51.6	59.0	48.2	6.29	30	
November ..	30.040	56.0	28.5	47.5	45.4	43.2	51.2	41.5	1.66	14	
December ..	29.655	52.0	25.5	41.5	40.1	38.4	31.0	25.5	3.97	19	

Giving a total rainfall for 1903 of 38.41 inches and the total number of wet days 191. * A Fall of .01 inches constitutes a wet day.

TABLE

Showing the Rain Fall in Exeter for 10 years and number
of wet days.

Year.	Gross Rain fall.	No. of Wet Days	
1894	36.73	213	Average rain fall for the 10 years, 31.4 inches.
1895	32.62	173	
1896	22.63	153	Average number of wet days in the ten years, 178.
1897	34.14	187	
1898	26.75	161	
1899	33.10	165	
1900	31.16	192	1903
1901	30.61	175	Rain in inches, 38.41.
1902	27.88	174	Number of Wet Days, 191.
1903	38.41	191	

The Rain Fall for 1903 is the highest on record for
the 10 years.

SUMMARY OF TABLES.

TABLE I.	TABLE II.	TABLE IIIA.	TABLE IIIB.
Vital Statistics of the whole district for the year 1903 and the 9 previous years.	Shows Vital Statistics of separate localities which for this year I have not been able to classify, but have arranged to do so, should I have the honor to present another report.	Cases of infectious diseases notified during the year, and of those removed to the Sanatorium.	Showing monthly returns of the number of cases of infectious diseases notified.
TABLE IV.	TABLE V.	TABLE VI.	TABLE VII.
Causes of, and ages at death, during the year 1903, as required by the Local Government Board.	Showing the number of deaths from all causes including residents of Exeter who died at the Sanatorium classified under the various groups of diseases.	Showing the ages of deaths registered from all causes under each group of diseases.	Showing ages and deaths registered from all causes.

The Weekly Notifications during the Year are shown on Chart 1, the Weekly Mortality on Chart 2, and the Localities in which Fatal Cases have occurred are indicated on the accompanying Map of the City.

TABLE I.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1903 AND PREVIOUS YEARS.

Year.	Population estimated to Middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Deaths of non-residents registered in public institutions in the district.	Deaths of residents registered in public institutions beyond the district.	Net Deaths at all Ages belonging to the District.	
		Number.	Rate.*	One Year of Age.		At all Ages.					Number.	Rate.*
				Number.	Rate per 1,000 Births regist'd.	Number.	Rate.*					
I	2	3	4	5	6	7	8	9	10	11	12	13
1894	37,627	903	23.76	163	180	821	21.8	110	69	7	758	20.1
1895	37,647	943	24.81	138	146	714	18.9	112	49	2	667	17.7
1896	37,657	975	25.65	167	164	708	18.8	109	54	2	656	17.4
1897	37,672	906	23.84	150	165	751	19.1	115	54	2	699	18.5
1898	37,687	868	22.84	139	160	647	17.1	101	52	3	549	14.5
1899	37,702	843	22.19	153	181	772	20.4	108	45	14	741	19.6
1900	37,717	831	21.9	115	138	738	19.3	117	50	10	691	18.3
1901	47,185	1085	23.1	169	155	830	17.6	134	48	7	789	16.7
1902	47,300	1021	21.3	171	167	834	17.7	126	55	13	779	16.5
Averages for years 1894—1902		930	23.26	150	161	756	18.9	114	53	6	703	17.7
1903	47,400	1071	22.6	141	131	770	16.2	131	48	5	727	15.3

*Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

The Public Institutions included in column 10, for the years 1894 to 1900 inclusive, are the Royal Devon and Exeter Hospital, the City Workhouse; and for the year 1901 to 1903, Deaths of Residents of Exeter occurring at St. Thomas Workhouse; and in column 11 the Exeter Sanatorium, situate in Whipton, in the Parish of Pinhoe, about two miles from Exeter.

TABLE II.
VITAL STATISTICS OF SEPARATE LOCALITIES IN 1903 AND PREVIOUS YEARS.

NAME OF LOCALITIES.	1. EXETER.				2.				3.				4.				5.			
	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
YEAR.																				
1893	..																			
1894	..	37626	903	758	163															
1895	..	37647	943	667	138															
1896	..	37657	975	656	167															
1897	..	37672	906	699	150															
1898	..	37687	868	549	139															
1899	..	37702	843	741	153															
1890	..	37717	831	691	115															
1901	..	47000	1084	789	169															
1902	..	47300	1021	779	171															
Corrected Averages of Years 1894 to 1902.			930	702	150															
1903	..	47400	1071	727	141															

This Table is arranged so that next year the Deaths in the various Wards will be shown in these Spaces.

TABLE IIIA.

Cases of Infectious Disease notified during the Year, 1903.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						NUMBER OF CASES REMOVED TO HOSPITAL.							
	At all Ages.	At Ages—Years.					1	2	3	4	5	6	2 65 and up-wards.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.								
Small-pox	..													
Cholera	..													
Diphtheria	..	18	8	9	1		11	1	2	6	2			
Membranous croup	..													
Erysipelas	20		2		5	11								
Scarlet fever	321	10	110	167	20	14	264	4	90	145	15	10		
Typhus fever	..													
Enteric fever	31		3	13	8	7	14			6	3	5		
Relapsing fever	..													
Continued fever	..													
Puerperal fever	1					1								
Plague	..													
Chicken Pox	36	7	18	8	3									
Phthisis	..													
Totals	..	426	17	141	196	37	33	2	289	5	92	157	20	15

Isolation Hospital—Exeter Sanatorium, situate in Whipton, in the Parish of Pinhoe,
about two miles from Exeter.

One case of Diphtheria notified second time. Two cases of Erysipelas notified second time.

TABLE IIIB.

Monthly Returns of the Number of Cases of Infectious Disease reported to the Medical Officer of Health during the Year 1903.

Month	DISEASE NOTIFIED.									
	Small Pox.	Cholera.	Diphtheria.	Memb. Croup.	Erysipelas.	Scarlet Fever.	Typhoid.	Typhus.	Puerperal.	Chicken Pox.
January ...	—	—	1	—	1	23	2	—	—	2
February ...	—	—	1	—	2	29	4	—	—	3
March	—	—	3	—	—	19	5	—	—	2
April ...	—	—	3	—	4	17	1	—	—	4
May ...	—	—	1	—	3	22	4	—	—	4
June ...	—	—	—	—	—	23	1	—	—	1
July ..	—	—	3	—	—	36	6	—	—	4
August ...	—	—	—	—	3	32	4	—	—	2
September	—	—	1	—	2	32	2	—	—	3
October ...	—	—	1	—	2	29	—	—	—	1
November	—	—	—	—	3	30	2	—	—	5
December	—	—	4	—	—	29	—	—	1	5
Total ...	—	—	18	—	20	321	31	—	1	36

One case Diphtheria notified second time.

Two cases Erysipelas „ „

TABLE IV.

Causes of, and Ages at, Death during Year 1903.

Causes of Death	Deaths in whole District at subjoined Ages.							Deaths in Public Institutions.
	All ages	Under 1	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upw'rds	
Small-pox ..								
Measles ..	36	5	29	2				1
Scarlet fever ..	6	1	4			1		
Whooping- cough ..	5	4	1					
Diphtheria and membranous croup ..	4	1	3					1
Croup ..								
Fever { Typhus	1				1			
Enteric								
Other contin'd								
Epidemic influenza ..	3					2	1	
Cholera ..								
Plague ..								
Diarrhœa ..	23	21	1				1	
Enteritis ..	4	4						
Puerperal fever	1					1		
Erysipelas ..	1						1	1
Other septic diseases ..	4			1		3		
Phthisis ..	67		1	6	13	43	4	9
Other tuber- cular diseases.	19	3	4	3	2	5	2	9
Cancer, malig- nant disease.	60				1	34	25	11
Bronchitis ..	61	12	8	1		14	26	4
Pneumonia ..	41	8	10		1	13	9	3
Pleurisy ..	5					3	2	
Other diseases of Respiratory organs. ..	9	3	2	1	1	2		1
Alcoholism Cirrhosis of liver)	7					6	1	1
Venereal disease ..	1	1						1
Premature birth	15	15						
Diseases and accidents of parturition.	5				1	4		
Heart diseases	68	2		1	4	40	21	18
Accidents ..	13	1	2	3	2	4	1	5
Suicides ..	1					1		1
All other causes	315	60	10	14	10	10	141	69
All causes ..	775	141	75	32	36	256	235	135

TABLE V.

Showing the Number of Deaths from all Causes, including Residents of Exeter who died at the Sanatorium.

					No of Deaths.
I.—SPECIFIC FEBRILE, OR ZYMOTIC DISEASES—					
1.	Miasmatic Diseases	..	..	..	52
2.	Diarrhoeal	..	..	..	23
3.	Malarial	..	..	..	—
4.	Zoogenous	..	..	..	—
5.	Venereal	..	..	..	1
6.	Septic	..	..	..	5
II.—PARASITIC DISEASES					—
III.—DIETIC DISEASES					—
IV.—CONSTITUTIONAL DISEASES					160
V.—DEVELOPMENTAL DISEASES					102
VI.—LOCAL DISEASES					
1.	Diseases of Nervous System	..	..	..	80
2.	Diseases of Organs of Special Sense	..	..	..	2
3.	Diseases of Circulatory System	..	..	..	73
4.	Diseases of Respiratory System	..	..	..	125
5.	Diseases of Digestive System	..	..	..	41
6.	Diseases of Lymphatic System	..	..	..	2
7.	Diseases of Gland-like Organs of Uncertain Use	..	..	..	2
8.	Diseases of Urinary System	..	..	..	42
9.	Diseases of Reproductive System	..	..	..	—
	(a.) Diseases of Organs of Generation	..	..	..	—
	(b.) Diseases of Parturition	..	..	..	5
10.	Diseases of Bones and Joints	..	..	..	6
11.	Diseases of Integumentary System	..	..	..	—
VII.—VIOLENCE.					
1.	Accident or Negligence	..	..	..	13
2.	Homicide	..	..	..	—
3.	Suicide	..	..	..	1
4.	Execution	..	..	..	—
VIII.—ILL-DEFINED AND NOT SPECIFIED CAUSES					40
Total					775

TABLE VI.

Showing Ages of Deaths Registered from all Causes during
the Year 1903.

	AGES.											Totals	55 to 60
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 upwards		
I. Specific Febrile, or Zymotic Diseases	32	35	7	1		2		1	2	1		81	
II. Parasitic Diseases													
III. Dietic Diseases													
IV. Constitutional Diseases	4	9	10	17	20	22	23	13	19	14	1	160	8
V. Developmental Diseases	20								8	42	32	102	
VI. Local Diseases	52	28	12	14	17	28	47	34	68	44	2	378	32
VII. Deaths from Violence	1	2	3	2	2	1	2		1			14	
VIII. Deaths from Ill-Defined and not Specified Causes	32	1			1	2		1		1		40	
Totals	141	75	32	36	40	55	72	49	98	102	35	775	40

TABLE VII.—Continued.

III.—DIETIC DISEASES.	AGES.											Totals	50 to 65
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 upwards		
Want of Breast Milk, Starvation ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scurvy ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chronic Alcoholism ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delirium Tremens ..	..	..	..	..	..	..	..	..	..	..	..	..	..
IV.—CONSTITUTIONAL DISEASES.	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatic Fever, Rheumatism of the heart ..	..	..	..	..	..	1	..	1	..	..	..	2	..
Rheumatism ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gout ..	..	..	..	..	..	1	..	..	..	..	..	1	..
Rickets ..	..	2	..	..	..	..	..	..	..	..	..	2	..
Cancer, Malignant Disease ..	..	..	1	2	7	10	8	12	12	1	60	7	..
Tabes Mesenterica ..	..	1	..	..	..	..	..	..	..	..	1	..	..
Tubercular Meningitis, Hydrocephalus...	..	1	1	1	..	..	..	..	..	..	4	..	..
Phthisis ..	..	1	6	13	13	14	11	3	3	1	67	2	..
Other forms of Tuberculosis. Scrofula ...	3	4	3	2	4	..	..	1	1	1	19	..	..
Purpura, Hæmorrhagic Diathesis ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Anæmia, Chlorosis, Leucocythæmia ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Glycosuria, Diabetes Mellitus ..	..	..	..	..	1	1	..	2	..	..	4	..	..
Other Constitutional Diseases ..	..	..	..	..	..	..	..	..	..	..	..	..	..
V.—DEVELOPEMENTAL DISEASES.	4	9	10	17	20	22	23	12	19	14	1	160	9
Premature Birth ..	15	..	..	..	..	..	..	..	..	..	..	15	..
Atelectasis ..	5	..	..	..	..	..	..	..	..	..	..	5	..
Congenital Malformations ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Old Age ..	..	..	..	..	..	..	..	8	42	32	82	..	..
VI—LOCAL DISEASES	20	..	..	..	..	..	..	..	8	42	32	102	..
1.—Diseases of the Nervous System.	..	..	..	..	..	..	..	..	..	..	..	..	..
Inflammation of Brain or Membranes ..	..	..	1	..	1	..	..	..	..	..	..	2	..
Apoplexy, Softening of Brain, Hemiplegia	..	..	..	..	..	..	..	..	..	..	..	..	..
Brain Paralysis ..	..	..	..	..	..	4	3	6	18	6	..	43	6
Insanity, General Paralysis of the Insane ..	..	..	..	..	..	1	..	1	..	..	..	2	..
Epilepsy ..	..	..	1	..	1	2	..	..	..	..	..	4	..
Convulsions ..	13	1	..	..	..	..	..	..	..	..	..	14	..
Laryngismus Stridulus (Spasm of Glottis) ..	1	..	..	..	..	..	..	..	..	..	..	1	..
Disease of Spinal Cord, Paraplegia	..	..	..	..	..	..	..	..	..	..	..	..	..
Paralysis Agitans ..	..	2	..	..	..	1	2	..	3	2	..	10	..
Other Diseases of Nervous System ..	..	..	..	2	1	1	..	..	..	..	..	4	..
	14	3	2	2	3	8	6	6	22	8	..	80	6

TABLE VII.—Continued.

		AGES.											Totals.	55 to 60
		0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 Upwards		
2.—Diseases of Organs of Special Sense														
(e.g., of Ear, Eye, Nose)				1			1						2	..
3.—Diseases of Circulatory System.				1			1						2	..
Pericarditis	..												..	..
Acute Endocarditis	..						1						1	..
Valvular Diseases of Heart	..			1	4	1	1	7	1	4	1		24	4
Other Diseases of Heart	..	2				1	4	6	8	7	8	1	43	6
Aneurism	..												..	..
Embolism, Thrombosis	..							1		1			3	1
Other Diseases of Blood Vessels	..					1	1						2	..
4.—Diseases Respiratory System.		2	..	1	4	3	7	14	9	12	9	1	73	11
Influenza	..							2		1			3	..
Laryngitis	..	1	3	1									5	..
Croup	..												..	..
Emphysema, Asthma	..								1				1	..
Bronchitis	..	12	8	1				6	8	13	13		61	..
Pneumonia	..	8	10		1	3	5		3	2	7		41	2
Pleurisy	..						1	2		2			5	..
Other Diseases of Respiratory System	..	3	2	1	1			1	1				9	..
5.—Diseases of Digestive System.		24	23	3	2	3	6	11	13	18	20		125	2
Dentition	..	2	1										3	..
Sore Throat, Quinsy	..												..	..
Diseases of Stomach	..	3			1				1	5			10	..
Enteritis	..	4											4	..
Obstructive Diseases of Intestine	..	1	1	2			1				1		9	3
Peritonitis	..							1	1				2	..
Ascites	..												..	..
Cirrhosis of Liver	..						1	2	1	1			7	2
Jaundice and other Diseases of Liver	..	1				1		2					4	..
Other Diseases of Digestive System	..	1						1					2	..
6.—Diseases of Lymphatic System.		12	2	2	1	1	2	6	3	6	1		41	5
(e.g., of Lymphatics and of Spleen)	..								1		1		2	..
7.—Diseases of Gland-like Organs of Uncertain Use									1		1		2	..
(e.g., Bronchocele, Addison's Disease)	..			1			1						2	..
	..			1			1						2	..

TABLE VII.—Continued.

	AGES.											Totals.	50 to 65
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 upward		
8.—Diseases of Urinary System.													
Nephritis	..	..	2	..	2	1	3	1	4	..	..	15	2
Bright's Disease, Albuminuria	..	..	..	2	2	1	4	..	1	1	..	14	3
Disease of Bladder or of Prostate	..	..	..	..	..	..	..	..	4	4	..	9	1
Other Diseases of the Urinary System	..	..	..	..	1	..	1	..	..	..	1	4	1
	..	..	2	2	5	2	8	1	9	5	1	42	7
9.—Diseases of Reproductive System.													
(A). Of Organs of Generation.													
Male Organs	..	..	..	..	..	..	..	..	..	..	..	..	..
Female Organs	..	..	..	..	..	..	..	..	..	..	..	..	..
(B). Of Parturition.													
Abortion, Miscarriage	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Convulsions	..	..	..	..	..	1	..	..	..	..	..	1	..
Placenta prævia. Flooding	..	..	..	..	2	1	..	..	..	..	..	3	..
Other Accidents of Child Birth	..	..	..	1	..	..	..	..	..	..	..	1	..
	..	..	..	1	2	2	..	..	..	..	..	5	..
10.—Diseases of Bones and Joints.													
Caries, Necrosis	..	..	..	1	..	..	1	1	..	..	..	3	..
Arthritis, Ostitis, Periostitis	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Diseases of Bones and Joints	..	..	1	..	..	..	..	1	1	..	..	3	..
	..	..	1	1	..	..	1	2	1	..	..	6	..
11.—Diseases of Integumentary System.													
Carbuncle, Phlegmon	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Diseases of Integumentary System	..	..	..	..	..	..	..	..	..	..	..	..	..
VII.—DEATHS FROM VIOLENCE.													
1.—Accident or Negligence.													
Fractures and Contusions	..	..	1	1	..	..	2	..	1	..	..	5	..
Gunshot Wounds	..	..	..	..	..	..	..	..	..	..	..	..	..
Cut, Stab	..	..	..	..	..	..	..	..	..	..	..	..	..
Burn, Scald	..	2	..	..	..	..	..	..	..	..	..	2	..
Poison	..	..	..	..	..	..	..	..	..	..	..	..	..
Drowning	..	..	1	..	..	1	..	..	..	..	..	2	..
Suffocation	..	..	..	..	1	..	..	..	..	..	..	1	..
Otherwise	1	..	1	1	..	..	..	..	..	..	..	3	..
	1	2	3	2	1	1	2	..	1	..	..	13	..

TABLE VII.—Continued.

		AGES.											Totals	55 to 60
		0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 upwards		
2.—Homicide.														
Manslaughter	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Murder	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3.—Suicide.														
Gunshot Wounds	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cut, Stab	..	..	..	..	1	..	..	..	..	..	..	..	1	..
Poison	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Drowning	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanging	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otherwise	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4—Execution.					1								1	
Hanging	..	..	..	..	..	..	..	..	..	..	..	..	..	..
VIII —DEATHS FROM ILL- DEFINED AND NOT SPECIFIED CAUSES.														
Dropsy	..	..	..	..	..	1	..	..	..	..	..	..	1	..
Debility, Atrophy, Inanition	..	29	..	..	..	..	..	..	..	..	..	..	29	..
Mortification	..	..	..	..	..	..	..	..	..	1	..	..	1	..
Tumour	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abscess	..	1	..	..	..	1	..	..	..	..	..	..	2	..
Hæmorrhage	..	1	..	..	1	..	..	..	..	..	..	..	2	..
Sudden Death (cause not ascertained)	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Causes not Specified or Ill-defined	..	1	1	..	1	1	..	..	1	..	..	..	5	..
		32	1	..	2	1	2	..	1	..	1	..	40	..



Sanitary Inspector's Report.

GENTLEMEN

It is my privilege to Report on the work carried out by the Sanitary Inspectors for the year 1903. The past year has been one of steady work; and the improvements in the Sanitation of the City have been very considerable.

The continuance of the epidemic of Scarlet Fever has of necessity taken up a considerable portion of the time of the Sanitary Officers, when it is remembered that no less than 82 per cent. of the notified cases of Scarlet Fever; 64·7 per cent. of the cases of Diphtheria, and 45 per cent. of the cases

of Typhoid Fever were removed to the Sanatorium. The number of cases of Infectious Disease removed to the Sanatorium from Districts outside the City also adds to the work of the department.

This year we have had very considerable help and assistance from the Clerk and Officers of the School Board, the Masters, and Mistresses of the various Schools in the detection of Infectious Disease. A List of Scholars absent from School for one week is sent to the Health Department every Friday, and if there is any doubt as to the cause of absence, the child is visited by our Health Visitor, and if necessary, by the Medical Officer of Health; several cases of Scarlet Fever have been detected by this arrangement.

PUBLIC ABATTOIR AND PRIVATE SLAUGHTER-HOUSES.

The inspection of the Slaughter-houses within the City has been carried on at all times, and every endeavour is used to see that these premises are kept in a cleanly state, and in accordance with the Bye-laws. I am pleased to say that we have had very little trouble in dealing with these places; the occupiers being at all times ready to carry out any

suggestions made by the Sanitary Officers. During the past year I have, at the request of the occupiers, examined several carcasses of animals slaughtered in the private Slaughter-houses, in some cases I have had portions of the carcase destroyed, while in others the whole carcase has been destroyed.

The Public Abattoir has as in previous years maintained its efficiency under the control of Mr. Tucker. The following figures show the number of animals slaughtered at the Public Abattoir during the year 1903 :—

Bullocks	...	...	...	1,679
Calves	...	...	..	1,093
Sheep	...	...	...	10,671
Pigs	...	...	...	1,661
Total				... 15,104

During the past year the value of the Public Abattoir has again been demonstrated, no less than 14 carcasses having been seized and condemned as unfit for food; out of this number, 12 were destroyed on account of being diseased with generalised tuberculosis; giving a small percentage of less than one per cent. of the bullocks slaughtered.

DRAIN TESTING.

During the past year the whole of the house drainage of the City has been placed under the supervision of the Health Department, and a very considerable amount of work has been done in this direction ; the Drains of 206 houses have been tested with the smoke test ; 104 Drains have been re-laid, and the Drains and Sanitary arrangements of 41 new houses inspected, and tested by the water test, and Sanitary Fittings by the smoke test.

Before the final Certificate is granted for occupation of new buildings, I have insisted upon having the whole of the Drains and Fittings re-tested with the smoke test, after the whole of the work is completed ; with the result that many of the Drains have been found to be damaged in the filling in of the ground.

NEW BUILDINGS.

The number of new buildings completed during the year was 41 and the number in the course of erection are 88 The inspection of new buildings has taken up a very considerable portion of the time of one Assistant, and I have also spent a portion of my time in the supervision of this work. I am pleased to say that there has been very little

friction in getting the Bye-laws carried out, and that the system of the whole of this class of work being supervised by one department appears to be appreciated by the Builders.

UNSOUND MEAT, VEGETABLES, FOOD AND DRUGS.

The inspection of the places where food is prepared or sold has been carefully carried out, and only in three instances was it necessary to prosecute. In one case where stinking herrings were being sold for food, the Magistrates sentenced the defendant to two months imprisonment; in the other cases only nominal fines were imposed. One Butcher was convicted for using unlicensed premises as a Slaughter-house.

The following Table will show the number of seizures of unsound food.



TABLE

Showing MEAT, FISH, &c., Seized as Unfit for Food.

<i>Reference Number.</i>	<i>Nature of Seizure.</i>	<i>Date.</i>
1	Carcase of a Cow, Tuberculosis ...	January 15th.
2	Ditto ditto ...	February 3rd.
3	Ditto ditto ...	February 2nd.
4	Parts of four Sheep ...	March 16th.
5	Carcase of a Calf, Tuberculosis	March 26th.
6	Ditto Ewe Sheep ..	March 31st.
7	Ditto Cow, Blown ...	April 4th.
8	Ditto Cow, Tuberculosis	April 8th.
9	Ditto Calf, Tuberculosis	April 9th.
10	Ditto Steer, Tuberculosis	May 19th.
11	50 lbs. of Beef cut out from leg of Steer, on account of Abscess ...	June 9th.
12	Seven Hake ...	July 11th.
13	Carcase of a Cow, Tuberculosis	July 16th.
14	Barrel of Grapes ...	October 3rd.
15	Carcase of a Heifer, Tuberculosis	October 6th.
16	Ditto Cow, Tuberculosis	October 20th.
17	Ditto Cow, Tuberculosis	November 4th.
18	Ditto Heifer, Tuberculosis	November 30th.
19	Carcase of a Sheep, and several pieces of Mutton... ..	December 17th.
20	Carcase of an Ewe Sheep ..	August 14th.
21	Carcase of a Heifer, Tuberculosis ..	August 24th.
22	Quantity of Herrings ...	September 23rd.
23	Ditto Herrings ...	September 23rd.

During the year 123 samples were purchased for Analysis, out of which 10 were returned as adulterated, and 3 as unsatisfactory, the latter being samples of Ice Cream which was examined bacteriologically. In only one case was a prosecution considered necessary. The nature of the adulteration and fine imposed is set out in the Table on page 54. Every precaution has again been taken to prevent the object of the purchase becoming known ; many of the samples of milk were taken while in the course of delivery to the purchaser, or in transit to the local dairymen. The average quality of the milk supplied in the City is again above the standard set up by the Board of Agriculture.

Particular attention has again been given to the sale of Margarine Cheese, and Margarine ; in no case was any contravention of the Acts discovered.

BAKEHOUSES.

The 63 Bakehouses have been inspected twice during the year, and with a few exceptions were found to be kept in a cleanly state, and in accordance with the Acts. The six Underground Bakehouses have been dealt with for the purpose of certifying same as fit for the purpose in accordance with the Factory and Workshops Act ; in one

case the Council refused to certify, and the occupier, who was also the owner of the premises, had to build a new Bakehouse, in the other cases the premises were re-modelled, so that we have only five Underground Bakehouses—all certified.

DAIRIES, COWSHEDS AND MILKSHOPS.

The inspection of the Dairies, Cowsheds and Milkshops has been carried out, and those situate within the district have been visited twice during the year. The majority were found to be in a very creditable condition and well limewashed.

COMMON LODGING HOUSES.

There are three Common Lodging Houses in the City the supervision of which is under the control of the Police. In the early part of the year the Council adopted the Model Bye-laws for Common Lodging Houses, this necessitated a very considerable amount of alterations in the structure of two of these places and the addition of Sanitary conveniences in the third. At the present time these places are in good condition, and very well conducted; there has been only one case of infectious disease notified from these places for the year.

FACTORIES AND WORKSHOPS.

In the course of the past year 399 visits have been paid to Workshops, 52 visits to Factories, and 113 to Outworkers, with the result that offences under the Act were discovered in 52 cases; these have all been remedied upon notice. Improvements have been effected, chiefly in the matter of cleanliness, provisions of additional sanitary conveniences, and abatement of overcrowding

HOUSING OF THE WORKING CLASSES.

The policy of clearing obstructive and dilapidated buildings has again been carried out. The premises at the rear of No. 26, Stepcote Hill, mentioned in last year's Report have been demolished and an open space provided. The whole of the premises behind Nos. 56, 57 and 58, Preston Street, have been closed for human habitation. Notices requiring the premises at the rear of 47, 48 and 49, Coombe Street, to be closed have been served on the owner, with the result that the houses are now unoccupied, and the owner has consented to demolish them, and to put all the front houses in repair.

The Council have under consideration a scheme for the provision of Workmen's Dwellings, and I trust that before long we shall see this carried out.

The amount of office work I find is increasing every year, and a considerable portion of one Assistant's time is taken up in keeping the necessary books and record of work.

I have the honour to be,

Yours obediently,

W. J. WREFORD.



REPORT

OF THE

SANITARY WORK COMPLETED IN THE YEAR 1903.

Complaints received during the Year	...	...	221
Houses, Rooms, and Works Inspected	...	...	5616
Re-Inspection of Houses and Rooms	...	...	2450
Notices served for Sanitary Amendments of Houses and Premises	...	...	496
Houses, Premises, &c., Cleaned, Repaired, and Limewashed			156
Drains Repaired, Trapped and Ventilated		...	77
Drains Relaid with Socketted Pipes, properly Trapped and Ventilated	...	...	104

Drains Tested with Smoke Machine	...	...	206
Drains Tested with Water Test	...	...	104
Water Closets Repaired	...	...	111
Flushing of Water Closets Improved	...	...	49
New Urinals to Licensed Premises	...	...	10
New Water Closets provided	...	...	59
Windows provided to Water Closets	...	...	36
Removal of Accumulation of Dung, Stagnant Water, Animals and Refuse	...	...	20
Dung Pits Re-modelled	...	...	4
Court Yards Paved in Cement Concrete		...	86
Soil Pipes Ventilated	...	...	43
Defective Bell and D Traps replaced by Stoneware Gullies	...	...	106
Waste Pipes discharged into Stoneware Gullies and Trapped			120
Slaughter Houses Cleaned and Linewashed twice		...	10
Notices for Abatement of Overcrowding	...	...	7

Visits to Slaughter Houses	408
Bakehouses Limewashed twice	63
Visits to Bakehouses	198
Underground Bakehouses Abolished	2
Underground Bakehouses Re-modelled	5
Notices under the Working Classes Act	5
Notices served for Drains to be opened up	8
Notices served for Defective Rain-water Pipes	39
Notices served for Proper Supply of Water for Domestic Use	6
Rooms Disinfected after illness of an Infectious Character	454
Articles of Clothing Disinfected	6074
Samples taken for Analysis	123
Inspection of Cowsheds	4
Inspection of Dairies and Milkshops	112
Visits to Schools to see that no Scholars from Infected Houses were attending	370

Notices of Infectious Sickness to Managers of Schools, existing in houses from which Scholars were attending	1110
Notices to Librarian of Exeter Free Library ...	304
Orders for Destruction of Unsound Meat ...	15
Carcases Destroyed as Unfit for Food	17
Meat Destroyed (in lots)	2
Fish Destroyed (in lots)	3
Fruit Destroyed	1
Workshops Inspected	399
Factories Inspected	52
Outworkers Visited	113
Notices under Factory and Workshops Act :—	
Notices to Limewash	7
To Re-construct Water Closets	3
Contravention of Factory Act	23
Notices to provide additional Water Closets ...	10
Notices to Abate Overcrowding	9

CHART 1 SHEWING WEEKLY NOTIFICATIONS OF SCARLET FEVER, DIPHTHERIA AND TYPHOID FEVER.

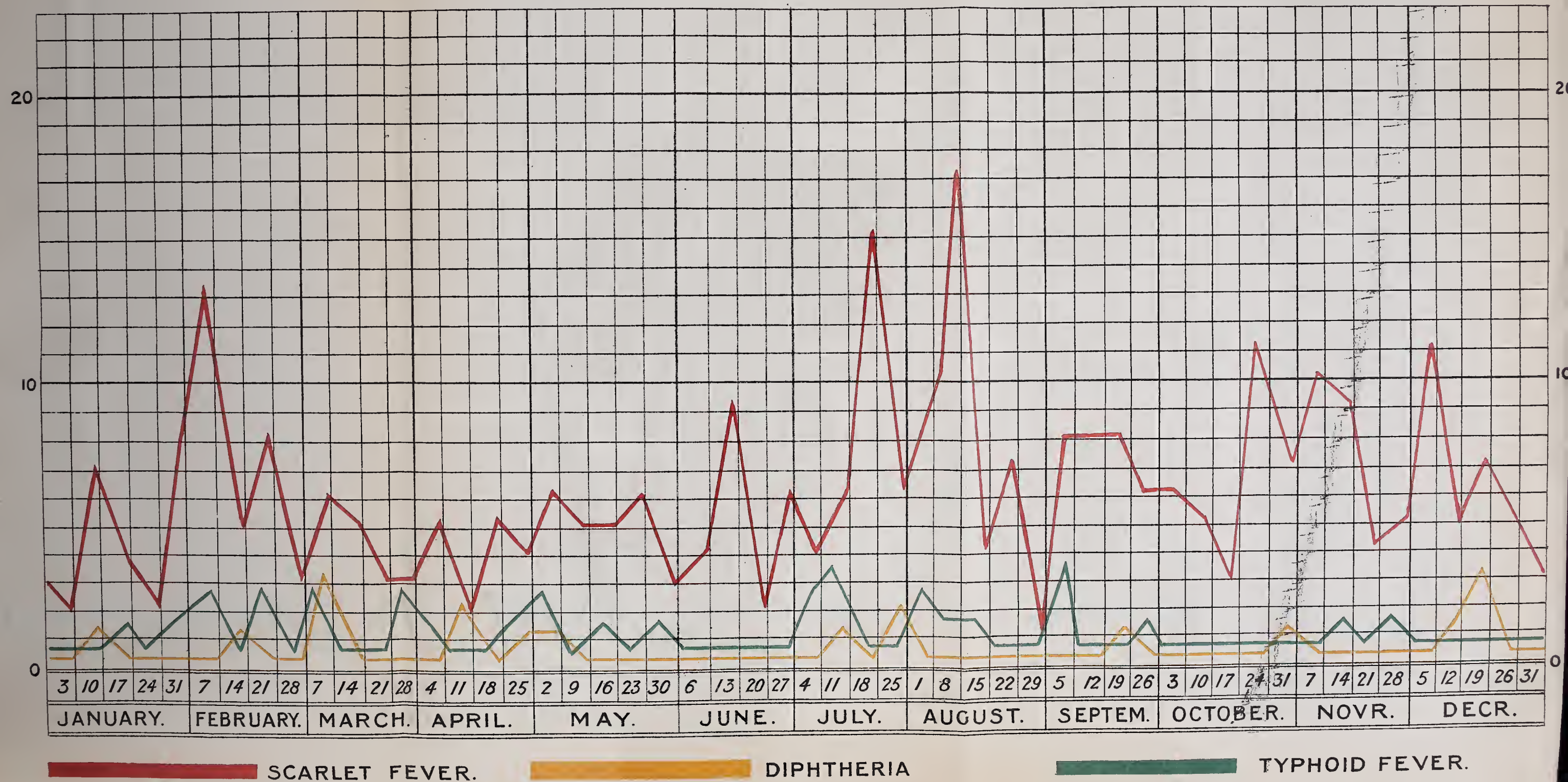
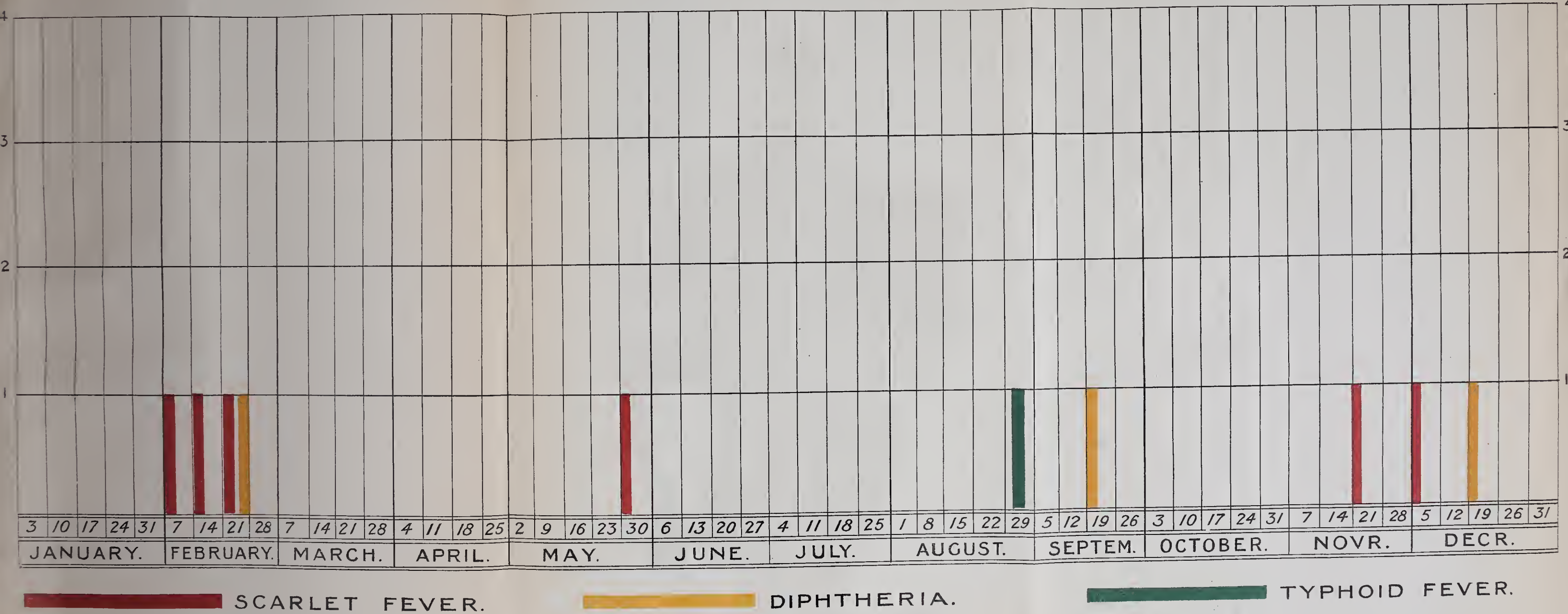


CHART 2 SHEWING WEEKLY MORTALITY FROM SCARLET FEVER.

DIPHTHERIA AND TYPHOID FEVER.



CITY & COUNTY OF THE CITY OF EXETER.

SHOWING LOCALITIES WHERE FATAL CASES
HAVE OCCURRED FROM PRINCIPAL ZYMOTIC
DISEASES DURING 1900. 1901. 1902. 1903.

Scarlet Fever	■	■	■	■
Diphtheria	▲	▲	▲	▲
Typhoid Fever	✠	✠	✠	✠
Small Pox	●	●	●	●



Scale. 0 1/4 1/2 3/4 1 mile

City Surveyor's Office,
18, Bedford Circus,
Exeter.

